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M 3,	704,465	11/28/72	Masak et al	.	~		
3,7	774,209	11/20/73	Fleming et	al.			
W 3,7	798,645	03/19/74	Baurle et a				
3,8	52,749	12/03/74	Kohler				>
3,9	946,385	03/23/76	Ewen				
4,0	005,379	01/25/77	Lerner		REC	EIVE).
4,	035,746	07/12 <i>[</i> 77	Covington	,	HAR	01.300	
4,0	085,319	04/18/78	Deitz et al.		Teshnolo	gy Genter	2600
4,	128,740	12/05/78	Graziano				
4,	263,568	04/21/81	Nemit				
4,:	316,191	02/16/82	Sawatari et	al.			
·		FOREIG	N PATENT D	OCUMENTS			
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M :	2 237 706 A	5/8/91	United King	gdom			
My 2	295 524 A	5/29/96	United King	gdom	-		
1 M	2 313 261 A	11/19/97	United King	gdom			
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	~	•	_	er Protocol for W ts", 1997 IEEE, pp			orks in
	Modulus Be		•	mmunication Signoc. IEEE Military			
				itecture for Band ns on Communica			
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M	4,3	375,622	03/01/83	Hollingswo	orth et al.				
de	4,4	434,505	02/28/84	Gutleber			>		
W	4,4	475,010	10/02/84	Huensch e	t al.				
M	4,6	26,859	12/02/86	Stansfield			->		
W	4,0	639,732	01/27/87	Acoraci et	al.				
de	4,0	639,914	01/27/87	Winters			ECFI\	/FD	
R						N.	AR 0 1	2002	
v	4,	737,794	04/12/88	Jones				2002	
						- cosm	Pivgy Guil	ter 2600	
W	4,	742,356	05/03/88	Kuipers					
N	4,	750,147	06/07/88	Roy, Ill et a	ıi.				
			FOREIG	ON PATENT D	OCUMENTS			,	
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M	0	639 035 A1	2/15/95	EPO		4			
M	0	713 261 A1	5/22/96	EPO					
Ny	. 0	777 400 A2	6/4/97	EPO					
1	OTHE	R DOCUME	NTS (Inclu	uding Author,	Title, Date, Pertin	ent Pages	s, Etc.)		
M		•		_	alysis and Desig gineering, pp. 29	•	Digital	<u> </u>	
M		<u>-</u>	_	_	terpolated Array nal Processing, \				
M		er et al., "D E Publicatio			ideband Signals	Using an	Interpola	ted Array"	,
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M	4,796,291	01/03/89	Makino		-		
11	4,827,395	05/02/89	Anders et a	al.			
N	4,829,554	05/09/89	Barnes et a	d.			
n	4,837,800	06/06/89	Freeburg e	t al.			
M	4,855,748	08/08/89	Brandao et	al.			
M	4,910,794	03/20/90	Mahany			RECE	IVED
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M	4,926,186	05/15/90	Kelly et al.		निश	•	enter 2600
2	4,940,963	07/10/90	Gutman et	al.			_
N	4,947,452	08/07/90	Hattori et a	l.			
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M	95/34103	12/14/95	wo				
M	98/01963	1/15/98	wo				
M	98/17037	4/23/98	WO				
,	OTHER DOCUME	NTS (Inclu	ding Author,	Title, Date, Pertine	ent Pages	, Etc.)	
1. Ga	anz et al., "A Data-D	Perived Re	ference Sigr	nal Technique for	r Adaptiv	e Arrays",	, IEEE
	ansactions on Com	nmunicatio	ons, Vol. 37,	No. 9, 9/1989, pp	. 975-983	•	
	is et al., "A Digital I sitmation", IEEE Tra	_	-				
./1 // 1	rishnamurthy et al., daptive Array Anter	_			ls For Us	e With Sm	nart

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	M		4,955,082	09/04/90	Hattori et a	1.		-		
	M		4,965,732	10/23/90	Roy, III et a	l.				-
	M		4,965,849	10/23/90	Kunihiro					
,	N		4,965,850	10/23/90	Schloemer	•				
	N		4,972,151	11/20/90	Rosen				:	
	d		4,989,204	01/29/91	Shimizu et	al.	BEC	EIVE	þ	
	W		5,041,833	08/20/91	Weinberg		MAR	0 1 2002		_
	41		5,052,799	10/01/91	Sasser et a	I. 1	achnolog	y Center 2	2600	
	W		5,093,924	03/03/92	Toshiyuki	et al.				
<u> </u>	M		5,103,459	04/07/92	Gilhousen	et al.				
	N		5,109,535	04/28/92	Kume et al		~			
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			DOCUMENT NUMBER	DATE	C	OUNTRY	CLASS	SUBCLASS	TRANSL/ YES	ATION NO
	ML		98/17071	4/23/98	wo					
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	M	•	98/33346	7/30/98	WO		_			
		<u> </u>	OTHER DOCUME	NTS (<i>Inclu</i>	ding Author,	Title, Date, Pertine	ent Pages	, Etc.)		
	M	Digit	et al., " Decision tal Communication	ons, 2nd E	dition, Kluw	er Academic Pul	o., pp. 72	5-736.		:
·	M	Digi	et al., " Decision tal Communication	ons, 2nd E	dition, Kluw	er Academic Pul	b., pp. 73	7-764.		
	M	and	dell et al., "Applic Non-Constant Mo als, Systems, an	odulus Sig	jnals", Proce	edings, 1998 Asi	ilomar Co			ant
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M	5,124,697	06/23/92	Мооге				-	
4	5,142,253	08/25/92	Mallavarpu	et al.		->		
W	5,159,593	10/27/92	D'Amico et	al.		7		
MO	5,255,210	10/19/93	Gardner et	al.				
71	5,260,968	11/09/93	Gardner et	al.	4	ECEI	VED	
ИЛ	5,262,789	11/16/93	Silverstein		-1	AR 01	2002	
M	5,274,844	12/28/93	Harrison et	t al.	Techr	ology Cer	ner 260)Q
W	5,283,540	02/01/94	Myer					
M	5,299,148	03/29/94	Gardner et	al.				
W	5,335,249	08/02/94	Krueger et	al.				
11	5,345,596	09/06/94	Buchenho	rner et al.				
		FOREIG	ON PATENT	OCUMENTS			1.0	
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M	7-170548	4/7/95	Japan					Х
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	OTHER DOCUME	ENTS (Inclu	l uding Author,	Title, Date, Pert	inent Pages	s, Etc.)	!	1
Wan Ap	hamed et al., "Direction 3.8, pp. 64-7" nder Veen et al., "/ plications in Mobi	trical Eng 1. A Constan le Commu	inerring, Mo t Modulus Fa inications", S	bile and Portab actorization Te SPIE 1994 "Adv	chnique fo	r Smart A	Group, Intenna	
Tal	orithms, Architec war et al., "Recurs ceived at an Anter	sive Algor	ithms for Es	timating Multip	le Co-Char	nnel Digit	_	als
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	5,361,303	11/01/94	Eatwell		12			
14	5,367,559	11/22/94	Kay et al.					
M	5,379,320	01/03/95	Fernandes	et al.				
M	5,387,915	02/07/95	Moussa et	al.	1,			
\mathcal{N}	5,423,072	06/06/95	lwashita et	al.		7		
N	5,430,760	07/04/95	Dent		-	RECEI	VED)
91	5,440,281	08/08/95	Wey et al.		-	MAR 0 1	2002	
ON	5,448,621	09/05/95	Knudsen		Teci	nology Ce	nter 26	600
11	5,457,812	10/10/95	Siira et al.					
1	5,465,399	11/07/95	Oberholtze	r et al.		—		
N	5,471,647	11/28/95	Gerlach et	al.	•			
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	OTHER DOCUME	ENTS (Inclu	ding Author,	Title, Date, Pertine	nt Pages	s, Etc.)	! <u></u>	
Pa	padias et al., "A S	pace-Time	Constant Mo	odulus Algorithm	for SDM	IA Systen	ns". 19	96
	oceedings, IEEE 4	~				-	· · · · · · · · · · · · · · · · · · ·	,
An	lwar et al., "Blind tenna Array", 199 mputers, Vol. 1, p	3, Proc. 27	th Asilomar (——————————————————————————————————————	_		_	
∧ Ra	shid-Farrokhi et a	I., "Joint P	ower Contro	l and Beamformir	ng for Ca	apacity Im	prove	ment
/ \/ in :	Wireless Networks 5-559.	s With Ante	enna Array",	1996 IEEE GLOB	ECOM 1	996, Vol.	1, pp.	
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M	5,475,864	12/12/95	Hamabe			7		
4	5,475,868	12/12/95	Duque-Ant	on et al.	-			•
W	5,497,505	03/05/96	Koohgoli e	t al.				
W	5,515,378	05/07/96	Roy, III et a	ıl.				
U	5,530,449	06/25/96	Wachs et a	l.				
N	5,530,917	06/25/96	Andersson	et al.	B	CEIV	ED	
1/	5,532,706	07/02/96	Reinhardt	et al.	M	R'012	002	
A	5,537,438	06/16/96	Mourot et a	al.	Techn	ology Cen	ter 260)()
	5,543,801	08/06/96	Shawyer					
N	5,546,090	08/13/96	Roy, III et a	d.		 		
	5,548,813	08/20/96	Charas et a	al.	_			
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	OTHER DOCUME	ENTS (<i>Inclu</i>	iding Author,	Title, Date, Pertine	ent Pages	s, Etc.)		
Ras	hid-Farrokhi et a	I., "Transm	nit Beamforn	ning for Cellular C	Commun	ication Sy	/stems	,55
Con	iference on Infor	mation Sci	ences and S	ystems, CISS-97;	3/1997,	4 pages.		·
Ras	hid-Farrokhi et a	I., "Downli	nk and Uplir	nk Capacity Enha	ncement	in Power	Contr	olled
Cell 5/97	lular Systems", P ′, pp. 647-651.	roceeding	s, 1997 IEEE	47th Vehicular T	echnolo	gy Confer	ence, \	Vol. 2,
	hid-Farrokhi et a nmunications Le			ontrol and Base S 7, pp. 102-104.	tation A	ssignmen	t", IEE	E
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M	5,553,074	09/03/96	Acampora	· · · · · · · · · · · · · · · · · · ·		-		
n	5,555,445	09/10/96	Booth					
1	5,557,657	09/17/96	Barnett					
AA	5,565,873	10/15/96	Dean					
m	5,566,209	10/15/96	Forssen et	al.		REOF		
1	5,576,717	11/19/96	Searle et a			LUEI	VED	
m	5,592,490	01/07/97	Barratt et a	ı l.		MAR 0 1	2002	
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Ma	5,603,082	02/11/97	Hamabe					,
M	5,603,089	02/11/97	Searle et a	l.				
M	5,606,729	02/25/97	D'Amico et	al.				
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M C	etworks", Confere	nce Record 1/97, pp. 63 out Multiplic	1 31st Asilon 20-624. cation of Wir	eless LANs for I	on Signals	s, System	s, and	
M Si	etworks", Conference omputers, Vol. 1, 1	nce Record 1/97, pp. 63 out Multiplic 994, IEEE, p	1 31st Asilon 20-624. cation of Wir pp. 1326-133	eless LANs for I	on Signals	s, System a Services	s, and	A

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111	5,615,409	03/25/97	Forssen et	al.			·	
M	5,621,752	04/15/97	Antonio et	al.				
1	5,625,885	04/29/97	Nakazawa (et al.				
U	5,638,375	06/10/97	Dettro et al	•	, e			
1/1	5,649,287	07/15/97	Forssen et	al.	j			
U	5,673,291	09/30/97	Dent		,	RECE	IVE	D
11	5,675,581	10/7/97	Soliman			MAR 0	. '	
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M	5,684,836	11/04/97	Nagayasu	et al.	-			000
W	5,689,219	11/18/97	Piirainen	· · · · · · · · · · · · · · · · · · ·	7			
1	5,689,502	11/18/97	Scott					
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Zh	ang et al., "Perfor	mance of a	a Modified P	olling Strategy for	Broadl	oand Wire	less LA	Ns in
Mal	Harsh Fading Envi	ironment",	1991, GLOB	ECOM 1991, pp. 1	1141-114	l6.		
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1/1	5,694,416	12/02/97	Johnson		<i></i>		
\mathcal{U}	5,697,066	12/09/97	Acampora				
M	5,726,978	03/10/98	Frodigh et	al.			
M	5,732,076	03/24/98	Ketseoglou	ı et al.	4		
1	5,745,858	04/28/98	Sato et al.			RECE	VED
N	5,748,676	05/05/98	Mahany			MAR 0 1	2002
M	5,752,165	05/12/98	Hokkanen		Tecl		nter 2600
M	5,774,461	06/30/98	Hyden et a	l.	_		
N	5,809,009	09/15/98	Matsuoka (et al.	-		
K	5,809,019	09/15/98	Ichihara et	al.			
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Application Number	09/317,802						
Filing Date	May 24, 1999						
First Named Inventor	Christopher Uhlik						
Group Art Unit	2749						
Examiner Name	N. Corsaro						
Attorney Docket Number	15685P022						

				U.S. PATENT DOCUMENTS		
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				Examiner Name	N. Corsaro
Sheet	15	of	15	Attorney Docket Number	15685P022

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Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1,
M		Christof FARSAKH et al., CHANNEL ALLOCATION AND DOWNLINK BEAMFORMING IN AN SDMA MOBILE RADIO SYSTEM, 1995 IEEE, pps 687-691	
My		Derek GERLACH et al., BASE STATION TRANSMITTER ANTENNA WITH MOBILE TO BASE FEEDBACK, 1993 IEEE, pps 1432-1436, http://www.stanford.edu/~apaulraj/paulraj_publist.html	
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Application Number 09/317,802
Filing Date May 24, 1999
First Named Inventor Christopher Uhlik
Group Art Unit 2749
Examiner Name N. Corsaro
Attorney Docket Number 15685P022

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M	1	Farsakh et al., "A REAL TIME DOWNLINK CHANNEL ALLOCATION SCHEME FOR AN SDMA MOBILE RADIO SYSTEM," IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, Vol. 3, 10/18/96, pgs. 1215-1220.						
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Application Number	+ 09/317,802
Filing Date	' May 24, 1999
First Named Inventor	Christopher Uhlik
Group Art Unit	. 2749
Examiner Name	N. Corsaro
Attorney Docket Number	15685P022

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/o country where published. Ottersten, B., "Array Processing for Wireless Communications," Proc. 8th IEEE Signal Processing Workshop on Statistical Signal and ArrayProcessing, June 1996, pgs. 466-473 COPY OF PAPERS ORIGINALLY FILED	
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Application Number	09/317,802						
Filing Date	May 24, 1999						
First Named Inventor	Christopher Uhlik						
Group Art Unit	2749						
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